

# ***Big. Bold. Cold.***



## **Introducing MEGA-TEC™ WALL-MOUNT™ AIR CONDITIONER**

A MULTI-STAGE, HIGH CAPACITY SENSIBLE COOLING SPVU SYSTEM WITH UNPRECEDENTED EFFICIENCY.

Bard's new 10 EER MEGA-TEC™ Wall-Mount Air Conditioner offers the highest level of compliance for your facility. Designed to give you high sensible cooling capacity within limited wall space, the MEGA-TEC™ is AHRI certified and delivers industrial grade service at the highest possible level of efficiency: *it's designed to meet and exceed the Department of Energy's current minimum efficiency mandate of 10 EER in addition to other state and national codes.* The MEGA-TEC™ is also IECC2015 compliant—the compressors can step down to less than 35 % of the unit's maximum capacity.

As an added efficiency opportunity, the MEGA-TEC's optional economizer can provide "free cooling" by using outdoor air to cool an area within your facility when outdoor conditions are favorable. All of this next-level efficiency can be controlled remotely; thanks to our Programmable Logic Control (PLC) technology, you'll be able to control up to fourteen units with a single controller.



**BARDHVAC.COM**

**Bard®**  
SINCE 1914

**Climate Control Solutions**

## BARD MEGA-TEC™ WALL-MOUNT™



### Sometimes, it pays to go big.

A PERFECT FIT FOR YOUR  
RETROFIT—READY MADE TO  
REPLACE YOUR EXISTING SYSTEM.

Designed to fit existing SPVU footprints and system openings, the MEGA-TEC is sized to be used as a slide-in replacement. With simple two wire daisy chain installation, making the switch couldn't be easier.

The MEGA-TEC™ includes easy access features as well. With a top door designed to open like the hood of a car and a condenser fan unit mounted on easy to use glide rails, your filter changes, coil cleaning and compressor service access will be smooth and simple.

#### Featuring multi-stage cooling for buildings with varying heat loads.

The MEGA-TEC™ is finely tuned to respond to applications requiring sensible cooling capacity. Thanks to dual refrigeration circuits and a total of three stages of cooling, this finely tuned system can operate in part load or full load, responding to your facility's needs and reducing energy usage. This dual circuit capability also serves as a crucial backup. With two Copeland Scroll compressors equipped with independent components, the dual circuit allows for five tons of cooling to remain active in the event that one compressor fails.

#### Bard's Exclusive Programming Enhances PLC Technology.

Bard Manufacturing's MEGA-TEC™ Wall-Mount Air Conditioner sets the industry standard for flexibility. Engineered to cool virtually any equipment building or shelter, the PLC technology inside MEGA-TEC provides unmatched cooling and unrivaled control over your critical application from a single point, including:

- ➊ A Bard LC6000 shelter controller can control up to 14 wall-mount units. Unit connection to the LC controller is accomplished with 2 wire-shielded cable with drain (ground). The controller has Modbus communication, customizable alarms, and links directly to the BardLink™ data management system.
- ➋ Intelligence and simplicity with an easy-to-use menu format.
- ➌ Remote access to equipment via Internet or LAN.
- ➍ Advanced Unit Diagnostics—The LC6000 controller has PGD as the HMI.
- ➎ TEC-EYE™ is the user interface for the wall unit.



The MEGA-TEC's easy-opening  
hood and glide rails offer easy  
access to key components.



#### INTRODUCING BALANCED CLIMATE FROM BARD™

Bard's Balanced Climate allows the MEGA-TEC™ to control both the air temperature and humidity efficiently and easily, removing up to TBD times the moisture from the air when required.

#### More Engineered Features

- **Multi Capacity:** System easily switches between three cooling capacities, operating in part load or full load cooling, based on need and peak efficiency.
- **Logic Board:** System control panel is equipped with PLC Logic Board, enabling multiple unit operation.
- **Logic Board-Orphan Mode:** System is designed to run independently if communication to LC controller is lost; cooling will be provided even if the controller or wiring fails.
- **High and Low-Pressure Transducers:** Constantly monitors refrigeration pressures and alarms if pressures exceed or fall below their min/max levels. Continuously calculates and displays subcooling and superheat.
- **High Efficiency Indoor Blower:** Industrial-grade centrifugal fans with backward curved blade design helps the MEGA-TEC achieve peak CFM airflow rates with the lowest energy usage possible.
- **High Efficiency Outdoor Fan Motor:** High efficiency ECM industrial grade fan system provides optimal air flow through condenser coil, adapting to high and low outdoor temperatures.
- **Full flow Free Cooling economizer:** This factory-installed option allows for free cooling savings with indoor humidity monitoring while protecting electronics with clean-air sensors.
- **Electronic Expansion Valve (EEV):** Precise controls certified in accordance with main national and international standards for intelligent refrigerant metering. The Bard EEV has passed cycle rate tests in excess of one billion cycles.
- **Optional Coated Condensers & Evaporator Coils:** FPO ocaudes tricesullius recipuenium paret; huitre consulin audero Catis amdiur am, Cas hostrum iam ors hostorudeat inaterec verfenterici iam curo.
- **Optional High MERV 13 Filters:** FPO ocaudes tricesullius recipuenium paret; huitre consulin audero Catis amdiur am, Cas hostrum iam ors hostorudeat inaterec verfenterici iam curo.
- **Optional Electric reheat dehumidification:** FPO ocaudes tricesullius recipuenium paret; huitre consulin audero Catis amdiur am, Cas hostrum iam ors hostorudeat inaterec verfenterici iam curo.

#### More Engineered Features

Multiple MEGA-TEC™ unit configurations will become available at different release times. Contact Bard to find your local certified distributor for model availability and specifications.

#### Security, Safety & Monitoring Features

- **Optional Bard Guard™:** Proper operation is verified through alarm notifications. Optional Bard Guard™ theft deterrent system to protect against copper and coil theft; in-shelter disarm button allows authorized personnel to service the system. *Coming Soon*
- **Outdoor air-quality detection system:** An air quality switch keeps dirt and debris out of the area being cooled.
- **Airflow switch:** Monitors blower operation, settings are field adjustable with alarm signal.
- **Emergency shutoff feature:** Emergency ventilation feature works to purge the building with fresh outdoor air. *Only available with economizer option.*
- **High temperature ventilation features:** opens economizers to vent building at alarm temperature if outside ambient temperature is less than indoor temperature.
- **Dirty condenser coil detection system:** Monitors condenser performance with adjustable alarm notification and algorithm. *Coming Soon*
- **Dirty Filter Switch:** Monitors pressure drop across the unit filter. This will indicate when a filter change is needed. An indicator light is located on the external surface of the unit.
- **Live superheat & subcooling:** Calculation display.
- **Closed Cell Foam (CCF):** Insulation throughout. *No fiberglass insulation used.*

#### Third Party Accreditation, Certifications & Validations

- Meets current US Department of Energy minimum efficiency
- IECC2015
- AHRI Certified
- ETL Approved
- ISO 9001:2015 Certified Manufacturer

#### Ongoing Support

- Reliable Bard technical support and customer service.

**Breathe easy. You've got Bard.**



Bard Manufacturing Company, Inc.  
1914 Randolph Dr., Bryan, OH 43506  
419-636-1194

[www.bardhvac.com](http://www.bardhvac.com)

© October 2017 | BARD031 | S3560